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 TI Surfactant composition for cleaning of plastics and separation of aluminum
 in recycling operations
 IN Herrmann, Amanda Beatriz; Lenz, Cesar Antonio; dos Santos, Eder Jose
 PA Instituto de Tecnologia do Parana - Tecpar, Brazil
 SO Braz. Pedido PI, 4 pp.
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 DT Patent
 LA Portuguese
 IC ICM C08J011-04
 CC 38-2 (Plastics Fabrication and Uses)
 Section cross-reference(s): 46, 56

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PRAI	BR 2000-6641		20001215		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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BR 2000006641	ICM	C08J011-04

AB The compn. comprises dodecylbenzenesulfonic acid surfactant neutralized
 with NaOH to pH 6-7, 1-2% **triethanolamine**, and formic acid to
 adjust the pH to 0.0-3.0. The compn. aids in sepn. of plastic pieces
 adhered onto each other and in removal of labels and as a flotation agent
 for sepn. of Al. The plastic wastes are subjected to comminution, then
 immersed in the surfactant compn. preheated to 85-100.degree. under
 continuous stirring. The Al pieces in the flotation layer are removed
 manually, as are other materials, e.g., paper. After treatment, the
 plastic particles are immersed in a water bath at ambient temp. for
 rinsing prior to subsequent processing.
 ST dodecylbenzenesulfonic acid **triethanolamine** formic acid compn
 waste plastic cleaning; recycling plastic comminution flotation aluminum
 sepn washing surfactant compn
 IT Detergents
 Flotation